(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 24 March 2005 (24.03.2005)

PCT

(10) International Publication Number WO 2005/026319 A2

(51) International Patent Classification⁷: C12N

(21) International Application Number:

PCT/US2004/025395

(22) International Filing Date: 6 August 2004 (06.08.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

 10/635,396
 6 August 2003 (06.08.2003)
 US

 10/635,795
 6 August 2003 (06.08.2003)
 US

 10/635,754
 6 August 2003 (06.08.2003)
 US

 10/724,372
 28 November 2003 (28.11.2003)
 US

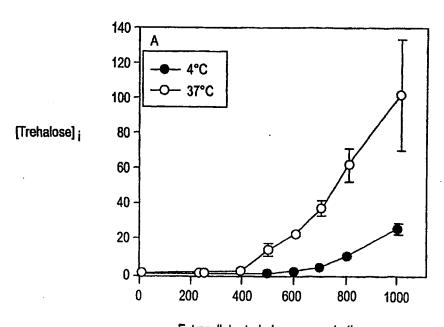
- (71) Applicant (for all designated States except US): THE REGENTS OF TEH UNIVERSITY OF CALIFORNIA [US/US]; 1111 Flanklin Street, 12th Floor, Oakland, CA 94607-5200 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): CROWE, John,

H. [US/US]; 1111 Cottonwood Court, Davis, CA 95616 (US). TABLIN, Fern [US/US]; 608 Hubble Street, Davis, California 95616 (US). TSVETKOVA, Nelly, M. [BG/US]; 3114 Newport Terrace, Davis, CA 95616 (US). TOROK, Zsolt [HU/HU]; Petrozsenyi u. 14/6, 8-6726 Szeged (HU). SATPATHY, Gyana, R. [IN/US]; 818 Arthur Street, Davis, CA 95616 (US). DWYRE, Denis [US/US]; 134 Ashford Place, Iowa City, IA 52245 (US). BALI, Rachna [US/US]; 1691 Columbus Road, West Sacramento, CA 95691 (US). BANERJEE, Mitali [IN/US]; 1850 Hanover Drive, #176, Davis, CA 95161 (US). KHEIROLOMOOM, Azadeh [IR/US]; 4956 Alterra Way, Sacramento, CA 95835 (US).

- (74) Agents: HYMAN, Laurence, J. et al.; Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th Floor, San Francisco, CA 94111 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,

[Continued on next page]

(54) Title: ERYTHROCYTIC CELLS AND METHOD FOR LOADING SOLUTES



Extracellular trehalose concentration

(57) Abstract: A dehydrated composition is provided that includes freeze-dried erythrocytic cells. The invention further provides methods for loading a solute into a cell comprising disposing a cell in a solution having a solute concentration of sufficient magnitude to produce hyperosmotic pressure on the cell for transferring a solute from the solution into cell.

WO 2005/026319 A2

KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.